


## 特許協力条約に基づく国際出願願書

原本（出願用） - 印刷日時 2001年01月19日（19.01.2001）金曜日 14時53分10秒

0	受理官庁記入欄		
0-1	国際出願番号.		
0-2	国際出願日		
0-3	(受付印)		
0-4	様式-PCT/RO/101 この特許協力条約に基づく国際出願願書は、 右記によって作成された。	PCT-EASY Version 2.91 (updated 01.01.2001)	
0-5	申立て 出願人は、この国際出願が特許協力条約に従って処理されることを請求する。		
0-6	出願人によって指定された受理官庁	日本国特許庁 (RO/JP)	
0-7	出願人又は代理人の書類記号	0051727-1103	
I	発明の名称	ダウンロード機能を有する制御装置	
II	出願人	出願人である (applicant only)	
II-1	この欄に記載した者は	米国を除くすべての指定国 (all designated States except US)	
II-2	右の指定国についての出願人である。	富士通株式会社 FUJITSU LIMITED 211-8588 日本国 神奈川県 川崎市中原区 上小田中4丁目1番1号 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan	
II-4ja	名称		
II-4en	Name		
II-5ja	あて名:		
II-5en	Address:		
II-6	国籍 (国名)	日本国 JP	
II-7	住所 (国名)	日本国 JP	

III-1 III-1-1	その他の出願人又は発明者 この欄に記載した者は	出願人及び発明者である (applicant and inventor)
III-1-2	右の指定国についての出願人である。	米国のみ (US only)
III-1-4ja III-1-4en III-1-5ja	氏名 (姓名) Name (LAST, First) あて名:	柏田 猛 KASHIWADA, Takeshi 211-8588 日本国 神奈川県 川崎市中原区 上小田中4丁目1番1号 富士通株式会社内
III-1-5en	Address:	C/O FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan
III-1-6	国籍 (国名)	日本国 JP
III-1-7	住所 (国名)	日本国 JP
IV-1	代理人又は共通の代表者、通知のあて名 下記の者は国際機関において右記のごとく出願人のために行動する。	代理人 (agent)
IV-1-1ja IV-1-1en IV-1-2ja	氏名 (姓名) Name (LAST, First) あて名:	遠山 勉 TOYAMA, Tsutomu 103-0004 日本国 東京都 中央区 東日本橋3丁目4番10号ヨコヤマビル6階
IV-1-2en	Address:	Yokoyama Building 6th floor, 4-10, Higashi Nihonbashi 3-chome, Chuo-ku, Tokyo 103-0004 Japan
IV-1-3	電話番号	03-3669-6571
IV-1-4	ファクシミリ番号	03-3669-6573
IV-2	その他の代理人	筆頭代理人と同じあて名を有する代理人 (additional agent(s) with same address as first named agent)
IV-2-1ja IV-2-1en	氏名 Name (s)	松倉 秀実 MATSUKURA, Hidemi
V	国の指定	
V-1	広域特許 (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	---
V-2	国内特許 (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	JP US

## 特許協力条約に基づく国際出願願書

0051727-1103

原本(出願用) - 印刷日時 2001年01月19日 (19.01.2001) 金曜日 14時53分10秒

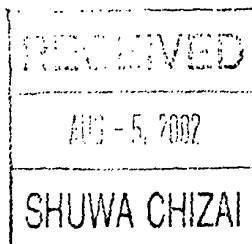
V-5	指定の確認の宣言 出願人は、上記の指定に加えて、規則4.9(b)の規定に基づき、特許協力条約のもとで認められる他の全ての国の指定を行う。ただし、V-6欄に示した国の指定を除く。出願人は、これらの追加される指定が確認を条件としていること、並びに優先日から15月が経過する前にその確認がなされない指定は、この期間の経過時に、出願人によって取り下げられたものとみなされることを宣言する。		
V-6	指定の確認から除かれる国	なし (NONE)	
VI	優先権主張	なし (NONE)	
VII-1	特定された国際調査機関(ISA)	日本国特許庁 (ISA/JP)	
VIII	照合欄	用紙の枚数	添付された電子データ
VIII-1	願書	4	-
VIII-2	明細書	25	-
VIII-3	請求の範囲	6	-
VIII-4	要約	1	op1103pct abstract.txt
VIII-5	図面	8	-
VIII-7	合計	44	
	添付書類	添付	添付された電子データ
VIII-8	手数料計算用紙	✓	-
VIII-9	別個の記名押印された委任状	✓	-
VIII-10	包括委任状の写し	✓	-
VIII-16	PCT-EASYディスク	-	フレキシブルディスク
VIII-17	その他	納付する手数料に相当する特許印紙を貼付した書面	-
VIII-17	その他	国際事務局の口座への振込みを証明する書面	-
VIII-18	要約書とともに提示する図の番号	1	
VIII-19	国際出願の使用言語名:	日本語 (Japanese)	
IX-1	提出者の記名押印		
IX-1-1	氏名(姓名)	遠山 勉	
受理官庁記入欄			
10-1	国際出願として提出された書類の実際の受理の日		
10-2	図面:		
10-2-1	受理された		
10-2-2	不足図面がある		

特許協力条約に基づく国際出願願書  
原本（出願用） - 印刷日時 2001年01月19日（19.01.2001）金曜日 14時53分10秒

10-3	国際出願として提出された書類を補完する書類又は図面であつてその後期間内に提出されたものの実際の受理の日（訂正日）	
10-4	特許協力条約第11条(2)に基づく必要な補完の期間内の受理の日	
10-5	出願人により特定された国際調査機関	ISA/JP
10-6	調査手数料未払いにつき、国際調査機関に調査用写しを送付していない	

## 国際事務局記入欄

II-1	記録原本の受理の日	
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# PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

To:  
TOYAMA, Tsutomu  
Yokoyama Building 6th floor, 4-10  
Higashi Nihonbashi 3-chome  
Chuo-ku, Tokyo 103-0004  
JAPON

NOTICE INFORMING THE APPLICANT OF THE  
COMMUNICATION OF THE INTERNATIONAL  
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

Date of mailing (day/month/year) 25 July 2002 (25.07.02)		
Applicant's or agent's file reference 0051727-1103		IMPORTANT NOTICE
International application No. PCT/JP01/00356	International filing date (day/month/year) 19 January 2001 (19.01.01)	
Priority date (day/month/year)		
Applicant FUJITSU LIMITED et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:  
US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:  
JP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 25 July 2002 (25.07.02) under No. WO 02/057904

4. **TIME LIMITS for filing a demand for international preliminary examination and for entry into national phase**

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of the designated Office. For further details, see PCT Gazette No.44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20,21,30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II.)

It is the applicant's sole responsibility to monitor all these limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  J. Zahra
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.91.11

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2002 年 7 月 25 日 (25.07.2002)

PCT

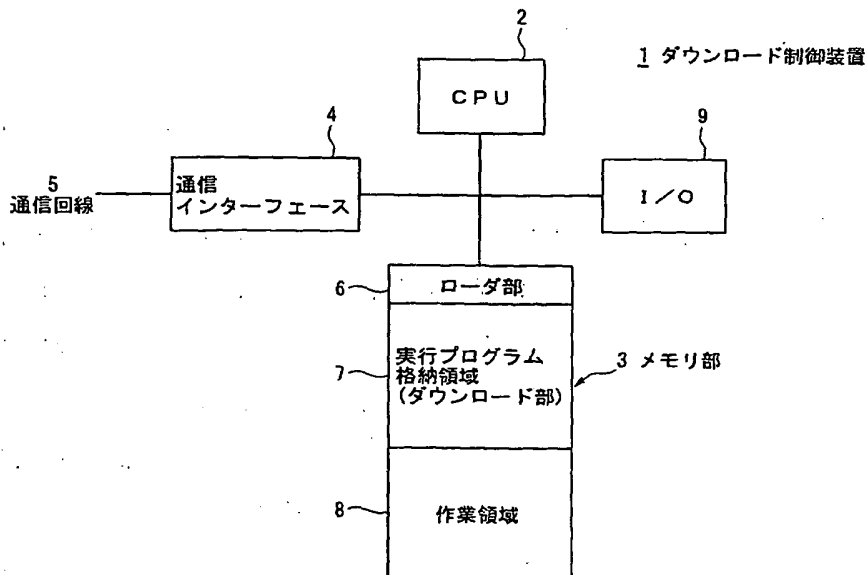
(10) 国際公開番号  
WO 02/057904 A1

- (51) 国際特許分類<sup>7</sup>: G06F 9/06, 9/445 (72) 発明者; および  
(75) 発明者/出願人 (米国についてののみ): 柏田 猛 (KASHI-WADA, Takeshi) [JP/JP]; 〒211-8588 神奈川県川崎市中原区上小田中4丁目1番1号 富士通株式会社内 Kanagawa (JP).
- (21) 国際出願番号: PCT/JP01/00356
- (22) 国際出願日: 2001 年 1 月 19 日 (19.01.2001)
- (25) 国際出願の言語: 日本語 (74) 代理人: 遠山 勉, 外 (TOYAMA, Tsutomu et al.); 〒103-0004 東京都中央区東日本橋3丁目4番10号 ヨコヤマビル6階 Tokyo (JP).
- (26) 国際公開の言語: 日本語
- (71) 出願人 (米国を除く全ての指定国について): 富士通株式会社 (FUJITSU LIMITED) [JP/JP]; 〒211-8588 神奈川県川崎市中原区上小田中4丁目1番1号 Kanagawa (JP). ~~富士通クロンテック(株)~~
- (81) 指定国 (国内): JP, US.
- 添付公開書類:  
— 国際調査報告書

[続葉有]

(54) Title: CONTROLLER HAVING DOWNLOAD FUNCTION

(54) 発明の名称: ダウンロード機能を有する制御装置



(57) Abstract: A controller having a download function comprising first storage means where an execution program is stored rewritably; second storage means where a download module including a new execution program to be updated and module identification information; first control means for receiving a download module encrypted with an encryption key created from the execution program and module identification information stored in the first storage means and storing them in the second storage means; second control means for decrypting the download module with an encryption key created from the execution program stored in the first storage means and the download module stored in the second storage means and replacing the execution program data in the first storage means with the decrypted new execution program data if the storing start address, data length, and check digit encrypted in the download module is decrypted to correct values.

- 5...COMMUNICATION LINE  
4...COMMUNICATION INTERFACE  
1... DOWNLOAD CONTROLLER  
6...LOADER SECTION  
7...EXECUTION PROGRAM STORAGE AREA (DOWNLOAD SECTION)  
3...MEMORY UNIT  
8...WORK AREA

[続葉有]

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP01/00356

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> G06F9/06, G06F9/445

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G06F9/06, G06F9/445

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2001  
Kokai Jitsuyo Shinan Koho 1971-2001 Toroku Jitsuyo Shinan Koho 1994-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 4-175952, A (Hitachi, Ltd.), 23 June, 1992 (23.06.92) (Family: none)	1-22
A	JP, 10-27097, A (ANRITSU CORPORATION), 27 January, 1998 (27.01.98) (Family: none)	3, 4, 14, 15
A	JP, 11-15672 (BROTHER INDUSTRIES, LTD.), 22 January, 1999 (22.01.99), (Family: none)	5, 16
A	JP, 2000-315157 (Hitachi, Ltd.), 14 November, 2000 (14.11.00), (Family: none)	7, 18

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
17 April, 2001 (17.04.01)

Date of mailing of the international search report  
24 April, 2001 (24.04.01)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## PATENT COOPERATION TREATY

PCT

INFORMATION CONCERNING ELECTED  
OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

To:

TOYAMA, Tsutomu  
Yokoyama Building 6th floor, 4-10  
Higashi Nihonbashi 3-chome  
Chuo-ku, Tokyo 103-0004  
JAPON

Date of mailing (day/month/year) 25 July 2002 (25.07.02)		
Applicant's or agent's file reference 0051727-1103		IMPORTANT INFORMATION
International application No. PCT/JP01/00356	International filing date (day/month/year) 19 January 2001 (19.01.01)	Priority date (day/month/year)
Applicant FUJITSU LIMITED et al.		

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:  
National :JP,US
2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:  
None
3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. (41-22) 740.14.35	Authorized officer:  J. Zahra  Telephone No. (41-22) 338.83.38
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## PATENT COOPERATION TREATY

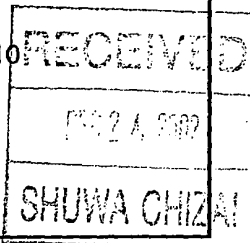
**PCT**  
**NOTIFICATION OF TRANSMITTAL**  
**OF COPIES OF TRANSLATION**  
**OF THE INTERNATIONAL PRELIMINARY**  
**EXAMINATION REPORT**

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

TOYAMA, Tsutomu  
 Yokoyama Building 6th floor, 4-10  
 Higashi Nihonbashi 3-chome  
 Chuo-ku, Tokyo 103-0004  
 Japan



Date of mailing (day/month/year) 03 December 2002 (03.12.02)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference 0051727-1103	
International application No. PCT/JP01/00356	International filing date (day/month/year) 19 January 2001 (19.01.01)
Applicant FUJITSU LIMITED et al	

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

JP

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des C. lombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer Eliott PERETTI (Fax 338 9090) Telephone No. (41-22) 338.83.38
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Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0051727-1103	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP01/00356	International filing date (day/month/year) 19 January 2001 (19.01.01)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC G06F 9/06, 9/445		
Applicant FUJITSU LIMITED		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets.
3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 20 June 2001 (20.06.01)	Date of completion of this report 27 September 2001 (27.09.2001)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP01/00356

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP01/00356

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-22	YES
	Claims		NO
Inventive step (IS)	Claims	1-22	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-22	YES
	Claims		NO

### 2. Citations and explanations

#### Claims 1-22

None of the documents cited in the ISR describes that a cipher key is produced from (1) the data of an execution program in a first storage means and (2) the data of a download module in a second storage means.